HP StorageWorks

OpenVMS connectivity 3.0G for the EVA3000/5000 Enterprise Virtual Array release notes

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About this document

This document includes the following topics:

- Release notes information
- Intended audience

Release notes information

These release notes cover the following topics:

- New features
- EVA storage system
- EVA compatability
- Operating constraints
- Storage System Scripting Utility for EVA
- Avoiding problem situations
- Documentation anomalies

Intended audience

This document is intended to assist customers who purchased the HP StorageWorks Enterprise Virtual Array (EVA) to run on an OpenVMS operating system.

This document is also intended for use by HP customer service personnel responsible for installing and maintaining devices connected to the EVA storage system.

New features

The major enhancement in this release is support for Virtual Controller Software (VCS) 3.025.

EVA storage system

This document contains the most recent product information about operating the EVA on a system running OpenVMS.

EVA documentation

A complete library of EVA and related documentation is available at the following web sites:

http://www.hp.com/go/eva5000

http://www.hp.com/go/eva3000

Supported configurations

Supported configurations are described in the *Enterprise Virtual Array QuickSpecs,* available at the following web site:

http://www.hp.com/products1/storage/products/disk_arrays/midrange/va7410/specs.html

The extended interoperability of the heterogeneous Storage Area Network (SAN) allows you to mix several types of HP StorageWorks storage systems. The *HP StorageWorks SAN design reference guide* is a detailed guide for SAN configurations and is available at the following web site:

http://h18004.www1.hp.com/products/storageworks/san/documentation.html

EVA compatibility

Operating system support

Table 1 lists the operating system's specifications.

> **NOTE:**
> Table 1 contains current minimum-level operating system specifications at the time of the EVA 3.025 release. Some component versions may change due to revision. For the latest information, go to this web site:http://h18006.www1.hp.com/storage/index.html

Table 1 Operating system specifications

OpenVMS version	Fibre SCSI ECO kit
OpenVMS 8.2	n/a
OpenVMS 8.2 I64	n/a
OpenVMS 7.3-2	DEC-AXPVMS_VMS732_FIBRE _SCSI_V0400
OpenVMS 7.3-1	DEC-AXPVMS_VMS731_FIBRE _SCSI_V0600

You can find the current Fibre SCSI ECO kit for you version of OpenVMS at the HP IT Resource Center web site:

http://www.itrc.hp.com

FCA support

Table 2 lists the supported Fibre Channel Adapters (FCAs) and the required firmware versions.

Table 2 FCA (HBA) Support

FCA (HBA)	Driver	Adapter firmware version (minimum)	Adapter firmware version (recommended)
HP StorageWorks DS-KGPSA-CA 1Gb, 64-bit/33MHz PCI	Native	3.82a1	3.92a2
HP StorageWorks DS-KGPSA-DA 2Gb, 64-bit/66MHz PCI	Native	3.91a1	3.92a2
HP StorageWorks DS-KGPSA-EA 2Gb, 64-bit/133MHz PCI-X	Native	1.81a5	1.90a4
HP StorageWorks DS-A5132-AA 2Gb, 64-bit/133MHz PCI-X	Native	1.81a5	1.90a4
HP StorageWorks DS-A5134-AA 2Gb, 64-bit/133MHz PCI-X Dual	Native	1.81a5	1.90a4
HP StorageWorks A6826A 2Gb, 64-bit/133MHz PCI-X Dual[a]	Native		

[a]Only supported on Integrity servers.

Switch support

This release supports the Fibre Channel switches and firmware versions listed in the *HP StorageWorks SAN design reference guide*, which can be downloaded from the following web site:

http://h18000.www1.hp.com/products/storageworks/san/documentation.html

> **NOTE:**
> HP recommends that you do not mix switch firmware versions in your SAN. It is considered a best practice to uniformly upgrade all switches in the SAN.

Alpha servers support

Table 3 lists the EVA-compatible Alpha servers.

Table 3 EVA-compatible Alpha servers

Alpha Server	DS-KGPSA-CA support	DS-KGPSA-DA support	DS-KGPSA-EA support	DS-A5132-AA support	DS-A5134-AA support
AS800	Yes	No	No	No	No
AS1200	Yes	No	No	No	No
AS4000	Yes	No	No	No	No
AS4100	Yes	No	No	No	No
AS8200	Yes	No	No	No	No
AS8400	Yes	No	No	No	No
DS10	Yes	Yes	Yes	No	No
DS10L	Yes	Yes	Yes	No	No
DS15	No	Yes	Yes	Yes	Yes
DS20E	Yes	Yes	Yes	Yes	No
DS25	Yes	Yes	Yes	Yes	Yes
ES40	Yes	Yes	Yes	Yes	No
ES45	Yes	Yes	Yes	Yes	Yes
ES47	No	Yes	Yes	Yes	Yes
ES80	No	Yes	Yes	Yes	Yes
GS60	Yes	No	No	No	No
GS60E	Yes	No	No	No	No
GS80	Yes	Yes	Yes	Yes	No
GS140	Yes	No	No	No	No
GS160	Yes	Yes	Yes	Yes	No
GS320	Yes	Yes	Yes	Yes	No
GS1280	No	Yes	Yes	Yes	Yes

Integrity servers support

The following Integrity servers are EVA-compatable and support the A6826A FCA.

- rx1600
- rx1620
- rx2600
- rx2620
- rx4640

Multiple-path support

Multiple-path capability is integrated into the OpenVMS operating system. No additional software is required to achieve high-availability, multiple-path capability.

Single-path support

OpenVMS servers require a single FCA to support single-path mode.

> **NOTE:**
> Single-path mode should not be used in mission-critical environments.

Operating constraints

You can information about find operating constraints specific to the EVA and Command View EVA in their respective release notes.

Failover/failback

Failback preference settings for the HSV controllers are specific to the operating system. Refer to the HP StorageWorks Enterprise Virtual Array release notes for details.

Storage System Scripting Utility for EVA

The Storage System Scripting Utility (SSSU) communicates directly with the Command View EVA. Refer to the *Command View EVA release notes* prior to using the SSSU.

Avoiding problem situations

The following sections describe problems that may arise and their solutions.

Known problems

You can find information about problems specific to the EVA and Command View EVA in their respective release notes.

SSSU

Changing comments on a disk enclosure

Use Command View EVA to change comments on a disk enclosure. If you try to change a disk enclosure comment using the SSSU, the following error message appears:

```
Error:  Invalid Operation
```

Changing the name of a disk enclosure

Changing the name of a disk enclosure is not supported with the SSSU or with Command View EVA. If you try to change a disk enclosure name using the SSSU, the following error message appears:

```
Error:   Invalid Operation
```

Documentation anomalies

The following anomalies can be found in associated documentation.

- On page 18 of the *HP StorageWorks Storage System Scripting Utility Command View EVA reference guide*, 3.2, step 1 in the "OVMS" section is incorrect.
  Change the command in step 1 to the following:

  ```
  $ Product remove SSSU
  ```

- On page 21 of the *HP StorageWorks OpenVMS for Enterprise Virtual Array installation and reference guide*, step 2 in the "Installing the storage system scripting utility" section lists an incorrect executable file name. Change step 2 as follows:

  2. Copy the self-extracting executable file `SSUVxBLDxx.exe` from the CD-ROM to a temporary directory on the host system.